

CAREER FIELD EDUCATION TRAINING PLAN
DIAGNOSTIC IMAGING
4R0X1/A/B/C

This change is effective August 2004.

1. Page insert changes for CFETP 4R0X1 Parts I and II October 2002:

<u>Remove:</u>	<u>Insert:</u>
59-60	24.1-24.2 59-61

2. Write-in changes:

Page	Paragraph	Line(s)	Action
7	4.2.1	5-6	Delete "Exposes and processes images." Replace with "Exposes, records and processes images. Manipulates the recorded images using computer applications."
8	4.2.5	4	After "...images and reports." Add "Monitors patient condition and notifies attending radiologist/provider of adverse changes."
8	4.2.6	3 fr bot	After "...are followed." Add "Practices infection control standard precautions."
10	5.2	6-8	Delete ", and active participation...is encouraged".
10	5.2	last line	Delete "It is also...supervision/management duties."
10	5.3	3	After "...Distance Learning 7 Level course". Add ", have been awarded the 5-skill level and be certified in all 5-level tasks within the capability of their institution."
10	5.3	4-6 fr bot	Delete "Continued membership,...affiliates is encouraged."
11	5.3.1	3 fr bot	After "...DIN-PACS contract." Add "The PACS Administrator is responsible for securing and maintaining network integrity, obtaining equipment and software certifications, and ensuring system security."
11	5.3.2	1-10	Delete entire A/B/C-Shred section (5.3.2).
13	6.5	1-3	Delete "Continued the requirement...noted that funding". Replace with "Must have acquired the 5-level, be signed off on all core tasks, and have completed the Diagnostic Imaging Craftsman Course to obtain the 7-level. Funding".

Page	Paragraph	Line(s)	Action
16	8.2 Upgrade to Journeyman	(HYT) column line 1	Delete “10 years”. Replace with “12 years (SrA)”.
16	8.2 Upgrade to Craftsman	4-5	Delete “- 12 months OJT...prior AFSC”. Replace with “- Minimum 12 months on-the-job training (6 months for retrainees)”.
17	8.2 NCOA	(HYT) column lines 1-2	Delete “22 years”...Replace with “24 years”. Delete “24 years”...Replace with “26 years”.
17	8.2 Upgrade to Superintendent	(HYT) column line 1	Delete “26 years”...Replace with “28 years”.
19	10.1.1.4.1	3-9	Delete “, 24 months is...return to the 4R0X1 AFSC.”.
19	10.1.1.4.1	3	After “...journeyman”...Add “and possession of the 5-skill level. Twenty-four months experience (post training) as a Diagnostic Imaging journeyman is preferred.”.
21	10.3.1.3	4-6	Delete “In addition, individuals...7-skill level.”. Replace with “The Air Force Quality Control (AFQC) test is not a requirement for the 7-skill level although it is still required for the official program completion as defined by the Joint Review Committee on Education in Radiologic Technology (JRCERT) - the program’s accreditation body. As of 1 October 2002, the AFQC must be completed successfully within five years from Phase II completion. Individuals completing Phase II prior to 1 October 2002 are grandfathered, and must successfully complete the AFQC by 1 October 2007. After 5 years have expired, the individual is no longer eligible for the AFQC.”.
24	1.	3	Delete “for classes beginning 27 Jan 03 and thereafter.” Replace with “commencing with the following Phase I classes: 2 Sep 04 Diagnostic Imaging class (Phase II graduation 30 Sep 05) and 10 Jan 05 Diagnostic Ultrasound class (Phase II graduation 15 Jul 05). Note: The Diagnostic Medical Sonography 5-level Career Development Course (CDC) currently under development will have an activation date of April 2006.”
24-26	2.5.1-2.5.1.3		Delete entire section 2.5.1 “Documentation” through 2.5.1.3 “Decertification and Recertification...is a core task).”. Place “X” over entire page 25. Insert pages 24.1 and 24.2.

29	Column 3-B (Ph II)	task 1c	Change “B” to “-”.
30	Column 3-B (Ph II)	task 4b	Change “A” to “-”.
34	Column 3A (Phase I)	task 11i	Change “b” to “A”.
34	Column 3E (War Time Crs)	task 11i	Change “b” to “A”.
34		task 11n	Add new task 11n to read as follows: “11n Components and Maintenance of Processors”, columns 2A through 2E of this row should have lines “ ” in them, column 2F should be blank, column 3A should have a proficiency code of “b”, columns 3B through 3D should have dashes in them “-”, and column 3E should have a proficiency code of “b”.
34		task 11o	Add new task 11o to read as follows: “11o Methods of Film Processing”, columns 2A through 2E of this row should have lines “___” in them, column 2F should be blank, column 3A should have a proficiency code of “b”, columns 3B through 3D should have dashes in them “-”, and column 3E should have a proficiency code of “b”.
37	Column 3A (Phase I)	task 14b	Change “1a” to “2b”.
38	Column 3A (Phase I)	task 16a(7)	Change “b” to “2b”.
39	Column 3A (Phase I)	task 17a	Change “b” to “a”.
39	Column 3E (War Time Crs)	task 17a	Change “b” to “a”.
40	Column 1	task 19	After “Computed Tomography Procedures”. Add “(SEI 478)”.
40	Column 3-B (Ph II)	task 19d(3)	Change “A” to “-”.

Page	Paragraph	Line(s)	Action
43	Column 1	task 20	After “Cardiovascular and Interventional Procedures”. Add “(SEI 479)”.
48	Column 1	task 21	After “Mammography Procedures”. Delete “(SEI)”. Replace with “(SEI 460)”.
48	Column 3-E (AZO course)	Tasks 21b(1-5)	Change each task proficiency code “b”.
48	Column 3-E (AZO course)	Tasks 21b(7-12)	Change each task proficiency code to “b”.
50	Column 1	task 22	After “ <u>Practical Nuclear Medicine</u> ” Add “; <u>Review of Nuclear Medicine Technology</u> ”.
59-61			Remove pages 59-60. Place “X” over entire page 61. Insert replacement pages 59-61.
67	Bibliography	9 fr bot	Add new reference: “ <i>Diagnostic Ultrasound Study Guide – March 2003</i> , Available: https://hospital.scott.af.mil/PDF-Bin/B-shredStudyGuide12May03.pdf ”.
68	Bibliography	3	Add new reference: “ <i>Steves, Ann M. Review of Nuclear Medicine Technology. 2nd ed., Society of Nuclear Medicine, Inc., 1996.</i> ”.
77	10. AF In-Residence Courses.	Nuclear Medicine (Ph II)	In <u>Location</u> column, Delete “Naval School of Health Sciences, VA”. Replace with “Various Phase II sites”.

- Final Action: After completion of necessary actions, file this change in back of the entire CFETP. Transcribe all documentation from replaced STS pages onto the appropriate insert replacement pages.

BY ORDER OF THE SECRETARY OF THE AIR FORCE

OFFICIAL

GEORGE PEACH TAYLOR, JR.
Lieutenant General, USAF, MC, CFS
Surgeon General

2.5.1. Documentation. All personnel authorized to sign off tasks in Part II of the CFETP must be listed on the Identification Block of the CFETP, Part II. Identify duty position requirements to include core tasks by circling the sub-paragraph number next to the task statement.

2.5.1.1. Initial Certification. As a minimum for initial certification, complete the following columns in Part II of the CFETP:

- a) Training start date (day, month, year).
- b) Training completion date (day, month, year).
- c) Trainee initials.
- d) Trainer initials.
- e) Certifier initials (required on all core tasks).

NOTE: All entries on documents contained in the AF Form 623, to include the CFETP, AF Form 623a, AF Form 797, AF Form 1098, and any additional training documents as determined by local requirements, will be documented in pencil. However, if these publications/forms make up an automated training documentation package, pencil entries are not required. Signatures and AF Form 623a entries may be accomplished in black or blue ink.

In “one-person shops”, any person qualified to perform the task, regardless of rank, who has completed certifier’s training can certify regardless of AFSC. **EXAMPLE:** The trainer, supervisor, OIC, or commander can be the certifier as can any qualified certifier from the unit, base, or local area. **Every effort should be made to obtain separate trainers and certifiers, however if this is not possible due to lack of qualified personnel, individuals may use the same person as their trainer and their certifier. The trainer/certifier in these circumstances is expected to maintain integrity of the training/certifying process.** An AFJQS may be used in lieu of Part II of the CFETP only upon approval of the AFCFM. The AFCFM may supplement these minimum documentation procedures as needed or deemed necessary for the career field.

2.5.1.2. Knowledge Training. Knowledge training is required if no CDC is available or training must be documented for a CDC waiver. When the CDC is not available, the functional advisor identifies STS training references that the trainee requires for career knowledge and ensures, at a minimum, that trainees cover the mandatory items in AFI 36-2108, *Airman Classification*. For two-time CDC course exam failures, supervisors identify all STS items corresponding to the areas covered by the CDC. The trainee completes a study of STS references, undergoes evaluation by the certifier, and receives certification on the STS. **Note:** Career knowledge must be documented prior to submitting a CDC waiver. Document knowledge training by circling the corresponding letter in the applicable skill level CDC column. Use the following procedures to document the CFETP:

- a) Training start date (day, month, year).
- b) Training complete dated (day, month, year).
- c) Trainee initials.
- d) Trainer initials.

2.5.1.3. Transcribing. Transcribing documentation to a new CFETP is an administrative function, not a re-evaluation of training. Upon publication of a new CFETP, use the following procedures to transcribe:

2.5.1.3.1. Use the new CFETP to identify current training requirements and transcribe qualifications from the previous CFETP.

2.5.1.3.2. For tasks previously certified and required in the current duty position, circle the subparagraph number next to the task statement and enter the current date in the completion column. Trainee initials in the trainee column and the current task certifier or supervisor/trainer initials in the trainer column.

2.5.1.3.3. For tasks previously certified but not required in the current duty position (do not circle), transcribe only the previous certification date (no initials).

2.5.1.3.4. Annotate the AF Form 632a, (for example, "I certify the information contained in the CFETP dated XX was transcribed to the CFETP dated XX, and the trainee was given the superceded CFETP." Signed, dated, supervisor and trainee).

2.5.1.4. Retraining. Maintenance of CFETPs for personnel in retraining status. Maintain CFETP from previous AFSC until commensurate skill level is achieved, then give the obsolete field CFETP to the individual.

2.5.1.5. Decertification and Recertification. When a supervisor determines an airman is unqualified on a task previously certified for their duty position, the supervisor erases the previous certification (or deletes certification when using automated systems). Appropriate remarks pertaining to the reason for decertification are entered on the AF Form 623a. Begin recertification (if required) following procedures for initial certification (paragraph **2.5.1.1**). Treat the recertification training as you would for initial training...use a new start date, new completion date, trainer's initials, trainee's initials, and certifier's initials (as required).

- STS 4R0X1B -		2. CERTIFICATION FOR OJT AND QUALIFICATION TRAINING PACKAGES						3. TRAINING PROFICIENCY CODES				
1. TASKS, KNOWLEDGE, TECHNICAL REFERENCES AND CORE TASKS		A Start Date	B Completion Date	C Trainer's Initials	D Trainee's Initials	E Certifier's Initials	F QTP	A AQR Course (Phase I)	B 3-Skill Level Course (Phase II)	C 5-Skill Level CDC	D 7-Skill Level Course	E War Time Crs
23 ULTRASONOGRAPHY (B-shred) TR: <u>Diagnostic Ultrasound Study Guide (Mar03)</u>												
23a	Principles of diagnostic ultrasound TR: <u>Understanding Ultrasound Physics;</u> <u>Essentials of Ultrasound Physics</u>											
23a(1)	Practical physics							B	–	–	–	B
23a(2)	Instrumentation							B	–	–	–	B
23a(3)	Artifacts and safety							B	–	–	–	B
23a(4)	Doppler physics							B	–	–	–	B
23a(5)	Vascular physics							–	–	B	–	–
23b	Basic operating procedures											
* 23b(1)	Adjust sonographic instrumentation	_____	_____	_____	_____	_____		2b	3c	–	–	2b
* 23b(2)	Adjust image display	_____	_____	_____	_____	_____		2b	3c	–	–	2b
* 23b(3)	Record ultrasound image	_____	_____	_____	_____	_____		2b	3c	–	–	2b
* 23b(4)	Patient prep and instructions	_____	_____	_____	_____	_____		2b	3c	–	–	2b
23b(5)	Ergonomics	_____	_____	_____	_____	_____		2a	–	b	–	2a
23c	Cross-sectional anatomy and physiology TR: <u>Ultrasonography: An Introduction to</u> <u>Normal Structure and Functional Anatomy;</u> <u>Diagnostic Ultrasound: A Logical Approach</u>											
23c(1)	Thorax							–	–	A	–	–
23c(2)	Abdomen							B	–	B	–	B
23c(3)	Pelvis							B	–	B	–	B
23c(4)	Extremities							–	–	–	–	–
23c(5)	Testicular							B	–	B	–	B
23c(6)	Breast							B	–	B	–	B
23c(7)	Thyroid							B	–	B	–	B
23c(8)	Neurosonography							–	–	A	–	–
23c(9)	Vascular							B	–	B	–	B
23c(10)	Obstetrics							B	–	B	–	–

- STS 4R0X1B - 1. TASKS, KNOWLEDGE, TECHNICAL REFERENCES AND CORE TASKS		2. CERTIFICATION FOR OJT AND QUALIFICATION TRAINING PACKAGES						3. TRAINING PROFICIENCY CODES				
		A Start Date	B Completion Date	C Trainer's Initials	D Trainee's Initials	E Certifier's Initials	F QTP	A AQR Course (Phase I)	B 3-Skill Level Course (Phase II)	C 5-Skill Level CDC	D 7-Skill Level Course	E War Time Crs
23d	Perform ultrasound scans TR: <u>Diagnostic Ultrasound: A Logical Approach</u>											
23d(1)	Aorta							2b	3c	b	—	2b
* 23d(2)	Liver							2b	3c	b	—	2b
* 23d(3)	Gallbladder and Biliary system							2b	3c	c	—	2b
* 23d(4)	Pancreas							2b	3c	b	—	2b
* 23d(5)	Urinary system							2b	3c	b	—	2b
* 23d(6)	Splenic							2b	3c	b	—	2b
23d(7)	Abdominal Doppler							—	—	a	—	—
23d(8)	Gastrointestinal (GI) tract							—	—	a	—	—
23d(9)	Pelvis											
* 23d(9)(a)	Transabdominal							2b	3c	b	—	2b
* 23d(9)(b)	Endovaginal							2b	3c	c	—	2b
23d(10)	Obstetrical											
* 23d(10)(a)	First trimester							2b	2c	b	—	—
* 23d(10)(b)	Second and Third trimester							2b	2c	b	—	—
23d(11)	Peripheral vascular											
23d(11)(a)	Upper extremity							—	1a	b	—	—
* 23d(11)(b)	Lower extremity							2b	3c	c	—	2b
23d(12)	Carotid arteries							1a	2b	b	—	1a
* 23d(13)	Thyroid							2b	3c	c	—	2b
* 23d(14)	Scrotum/testes							a	3c	c	—	a
23d(15)	Breast							1b	3b	b	—	1b
23d(16)	Prostate							—	—	a	—	—
23d(17)	Transplants											
23d(17)(a)	Kidney							—	—	a	—	—
23d(17)(b)	Liver							—	—	a	—	—

- STS 4R0X1B - 1. TASKS, KNOWLEDGE, TECHNICAL REFERENCES AND CORE TASKS	2. CERTIFICATION FOR OJT AND QUALIFICATION TRAINING PACKAGES						3. TRAINING PROFICIENCY CODES				
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23d(18) Invasive procedures											
23d(18)(a) U/S guided amniocentesis	_____	_____	_____	_____	_____		—	—	a	—	—
23d(18)(b) U/S guided needle biopsy	_____	_____	_____	_____	_____		—	—	a	—	—
23d(18)(c) Aspiration/localization	_____	_____	_____	_____	_____		—	—	a	—	—
23d(19) Portable sonography											
23d(19)(a) Interoperative	_____	_____	_____	_____	_____		—	—	a	—	—
23d(19)(b) Bedside	_____	_____	_____	_____	_____		—	2c	—	—	2a
23d(20) Neonatal head	_____	_____	_____	_____	_____		—	—	a	—	—
23e Equipment quality assurance	_____	_____	_____	_____	_____		a	—	—	—	a
23f Probe cleaning techniques	_____	_____	_____	_____	_____		a	2b	—	—	a
23g Patient relations	_____	_____	_____	_____	_____		B	3c	—	—	B
23h Ethics TR: <u>Law and Ethics in Diagnostic Imaging</u>							A	—	—	—	A
23i Administer contrast media											
23i(1) Oral contrast media	_____	_____	_____	_____	_____		—	—	a	—	—
23i(2) Rectal contrast media	_____	_____	_____	_____	_____		—	—	—	—	—
23i(3) Intravenous contrast media	_____	_____	_____	_____	_____		—	—	a	—	—
23i(4) Endovaginal contrast media	_____	_____	_____	_____	_____		—	—	a	—	—
23j Administer medications											
23j(1) Oral Diphenylhydramine hydrochloride (e.g., Benadryl)	_____	_____	_____	_____	_____		—	—	—	—	—
23j(2) Intramuscular Diphenylhydramine hydrochloride (e.g., Benadryl)	_____	_____	_____	_____	_____		—	—	—	—	—
23j(3) Intravenous Epinephrine (e.g., Adrenalin)	_____	_____	_____	_____	_____		—	—	—	—	—
23k Document medication administration	_____	_____	_____	_____	_____		—	—	—	—	—